



Dart Aerospace Ltd.
1270 Aberdeen St
Hawkesbury, ON
K6A 1K7
Canada

Tel (613) 632-5200

D4857-M
Job Sheet 178072



Part No: D4857-M

Job Qty: 20 ea

Part Name: Wiper Deflector



Part Weight: 0 lbs

Status: Scheduled

Priority: Medium

Job Created: 5/26/18

Job Tracking No:

Due Date: 7/20/18

Created By: Marie Lajeunesse

Type: SOLD

Description:

Note: DWG REV F SHEETS 6,7

Ship Via:

Bill of Materials

Job Routing

Op No	Operation	Qty	Start Date	Due Date	Standard		Workcenter/Supplier		Sign-off
					Setup hrs	Run Hrs	Workcenter / Supplier	Lead Time	
100	Purchasing	20 pcs		7/20/18	0.00	0.00	Purchasing		AUG 01 2018
110	Packaging	20 pcs		7/20/18	0.00	0.00	Packaging2		AUG 01 2018
120	QC	20 pcs		7/20/18	0.00	0.00	QC5		38
130	Packaging	20 pcs		7/20/18	0.00	0.00	Packaging3-2		SEP 07 2018
140	QC21-SA	20 Ea		7/20/18	0.00	0.00	QC21		SEP 11 2018

Part Op 100 - Issue P/O: 40144 Possible supplier: FDC Composites Manufacture as per dwg D4857-M Prime Deflector as Descriptions: per dwg (SEE NOTE 4) Certificate of Conformity release note is required.

X20 JUN 08 2018

13
9-89

Job BOM

Part / Item	Component Name	Quantity	Operation	Container
D4857-P	Wiper Deflector	20 pcs (1 ea)	100-Purchasing	5098096

Job Allocations

Operation	Component Part	Required	Inventory	Allocated
100-Purchasing	D4857-P	20	1	0

Part Specifications

Specifications could not be found.

Plex 5/28/18 7:17 AM Dart.lajeunesse.marie



Dart Aerospace Ltd.
1270 Aberdeen Street
Hawkesbury, ON K6A 1K7
CANADA
TEL: 1 613 632-5200
Email: sales@dartaero.com
www.dartaerospace.com

Container No: S098350



Part: D4857-M

Job No: 178072

Serial No/Batch: S098350

Revision:

Inspector:

Exp Date:

Instructions:

Date: 08/01/18

DQA: _____ Date: _____

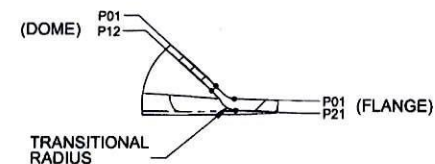


WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

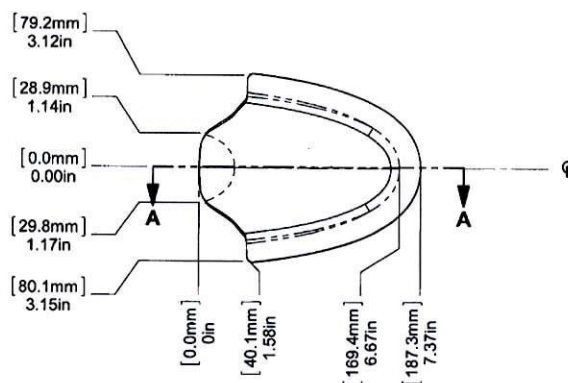
Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____	DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐	AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐			
Date :	Step #:	QTY Effective :		MRB (QSI042) Approval	
Description Work Order Deviation			Disposition		
			Completed By		
			Lead hand / Supervisor Approval Verification		
			QC / QA Coordinator Approval		
Root Cause		FAULT CATEGORY			
Environment ☐ Design ☐ Doc/Data ☐ Equip/Tooling ☐ Handling/Pre ☐ Material ☐ Internal Transport ☐ Tribal Knowledge ☐ LOA ☐ Substation ☐ Past Expiry Date ☐ Misidentified ☐	No Re-verification ☐ Operator ☐ Offset/Setup ☐ Supplier ☐ Training ☐ Use for Testing ☐ Poor Information ☐ Rushing ☐ Product Improvement ☐ Process Improvement ☐ Manufacturing Process ☐ Past Due ☐	Pressure/Forced ☐ Bending ☐ Centre Not Concentric ☐ Cracks ☐ Crimp/Kink/Ripple/Wave ☐ Cuffs ☐ Crushing ☐ Heat Treat ☐ Wave/Twist in Tube ☐ Marks/Chatter ☐	Temperature/Cure ☐ Set-up ☐ BOM/Route ☐ Broken/Damage/Defect ☐ Inspection Incomplete/Unqualified ☐ Contamination ☐ Countersink ☐ Cut Too Short ☐ Instructions Incomplete/Unclear ☐ Drill Holes ☐	Power Loss/Surge ☐ Folio/Program ☐ Grain ☐ Weld ☐ Wrong Stock Pulled ☐ Out of Sequence ☐ Off-set ☐ Misabeled ☐ Fit/Function ☐ Misaligned/off center ☐	Positioned Wrong ☐ Outside Dimensions ☐ Over/Under tolerance ☐ Part Incorrect ☐ Part Lost/Missing ☐ Part Moved ☐ Drawing ☐ Finish ☐ Misread ☐ Turning Sequence ☐
OTHER : ☐					



SECTION A-A

DETAIL B



D4857-M WIPER DEFLECTOR

RELEASED

2015 JUN 08

NOTES:

- ① MATERIAL: KEVLAR #265/353 4H SATIN, EPOXY PREPREG, 250°F CURE, 40% R/C
- ② MATERIAL: CARBON FIBER PREPREG, ALDILA PREPREG SYSTEM 3K2X2-FR250-204/40 T300,
- ③ MATERIAL: ALDILA #120 E-GLASS AR250 WITH 48% RC;
- ④ FINISH: PRIMER IAW MIL-P-85582, 2-7 MIL MAX,
- ⑤ TOLERANCES: PER DART QSI 018 UNLESS OTHERWISE NOTED
- ⑥ UNITS: INCHES UNLESS OTHERWISE NOTED, ALL METRIC DIMENSIONS ARE REFERENCE DIMENSIONS.
- ⑦ BREAK SHARP EDGES: 0.005 TO 0.010 MAX
- ⑧ IDENTIFICATION: N/A
- ⑨ WEIGHT: 0.35 lbs (0.16 kg)
- ⑩ PART DIMENSIONS CONTROLLED BY CAD MODEL FILE D4857-M-F.IGES
- ⑪ SEE SHEET 8 FOR LAYUP SCHEDULE. MANUFACTURE IAW MPP 145, CURE 250°F FOR 4 HOURS.

APPROVED

DESIGN	DW	DART AEROSPACE LTD HAWKESBURY, ONTARIO, CANADA	
DRAWN	AJS		
CHECKED	CP	DRAWING NO.	REV. P
MFG. APPR.	DD	D4857	SHEET 7 OF
APPROVED	WM	TITLE	SCALE
DE APPR.	DS	WIPER DEFLECTOR	NT
DATE	15.06.03 COPYRIGHT © 2013 BY DART AEROSPACE LTD THIS DOCUMENT IS PRIVATE AND CONFIDENTIAL, AND IS SUPPLIED ON THE UNDERSTANDING CONDITION THAT IT IS NOT TO BE USED FOR ANY PURPOSE OR COPIED OR COMMUNICATED TO ANY OTHER PERSON WITHOUT PERMISSION IN WRITING. ©2013/2014/2015 DART AEROSPACE LTD.		

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐					
Date :		Step #:		QTY Effective :			MRB (QSI042) Approval Completed By Lead hand / Supervisor Approval Verification QC / QA Coordinator Approval		
Description Work Order Deviation				Disposition					
Root Cause		FAULT CATEGORY							
Environment ☐	No Re-verification ☐	Pressure/Forced ☐	Temperature/Cure ☐	Power Loss/Surge ☐	Positioned Wrong ☐				
Design ☐	Operator ☐	Bending ☐	Set-up ☐	Folio/Program ☐	Outside Dimensions ☐				
Doc/Data ☐	Offset/Setup ☐	Centre Not Concentric ☐	BOM/Route ☐	Grain ☐	Over/Under tolerance ☐				
Equip/Tooling ☐	Supplier ☐	Cracks ☐	Broken/Damage/Defect ☐	Weld ☐	Part Incorrect ☐				
Handling/Pre ☐	Training ☐	Crimp/Kink/Ripple/Wave ☐	Inspection Incomplete/Unqualified ☐	Wrong Stock Pulled ☐	Part Lost/Missing ☐				
Material ☐	Use for Testing ☐	Cuffs ☐	Contamination ☐	Out of Sequence ☐	Part Moved ☐				
Internal Transport ☐	Poor Information ☐	Crushing ☐	Countersink ☐	Off-set ☐	Drawing ☐				
Tribal Knowledge ☐	Rushing ☐	Heat Treat ☐	Cut Too Short ☐	Mislabeled ☐	Finish ☐				
LOA ☐	Product Improvement ☐	Wave/Twist in Tube ☐	Instructions Incomplete/Unclear ☐	Fit/Function ☐	Misread ☐				
Substation ☐	Process Improvement ☐	Marks/Chatter ☐	Drill Holes ☐	Misaligned/off center ☐	Turning Sequence ☐				
Past Expiry Date ☐	Manufacturing Process ☐	OTHER :							
Misidentified ☐	Past Due ☐								



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CERTIFICATE of CONFORMITY

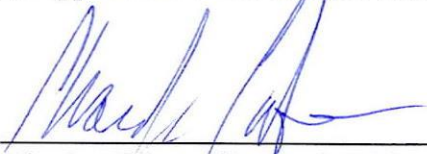
Customer Name: Dart Aerospace.

Customer P/O Number: 040144

Revision: NC

<u>PO Item</u>	<u>Qty</u>	<u>Part number ID</u>	<u>Description</u>	<u>Dwg number ID</u>	<u>Job Number</u>	<u>FDC ID</u>	<u>Lot</u>
1	20	D4857-P	Wiper Deflector	D4857-M Rev F	178072	DAE012-050 DAE012-051 DAE012-052 DAE012-053 DAE012-054 DAE012-055 DAE012-056 DAE012-057 DAE012-058 DAE012-059 DAE012-060 DAE012-061 DAE012-062 DAE012-063 DAE012-064 DAE012-065 DAE012-066 DAE012-070 DAE012-071 DAE012-072	2018-06-13 2018-06-14 2018-06-15 2018-06-14 2018-06-18 2018-06-18 2018-06-18 2018-06-18 2018-06-18 2018-06-19 2018-06-18 2018-06-19 2018-06-20 2018-06-20 2018-06-21 2018-06-21 2018-06-21 2018-06-27 2018-06-27 2018-06-27

I hereby certify that the workmanship, material and the processes used in the manufacture of the above part(s) supplied are in accordance with the requirements of the applicable Purchase Order.

Signature: 
Charles Cabana, Production Manager

Date : 2018-07-27



Dart Aerospace Ltd.
1270 Aberdeen St
Hawkesbury, ON
K6A 1K7
Canada

Tel (613) 632-5200

PURCHASE ORDER PO040144

Supplier: FDC002-VU
FDC Composites Inc.
45 Chemin de L'Aéroport, Local 26
St. Jean Sur Richelieu
QC
J3B 7B5 Canada
Phone: 450-357-1344 Ext 303
Fax: 450-357-1194

PO No: PO040144

PO Date: 6/8/18

Due Date: 7/25/18

Purchase Order

Revision:

Revision Date:

Ship-To Contact: Lavoie, Chantal
Phone: clavoie@dartaero.com

E-MAILED
JUN 08 2018

Ship To: 1270 Aberdeen Street
Hawkesbury
ON
K6A 1K7 Canada
Phone: 613-632-5200

Via: Ground

Pymt Terms: Net 30

Freight Terms:

Special Comments:

Items

Line Item	Part	Supplier Part No	Item No	Description	Status	Due Date	Order Quantity	Received Quantity	Balance	Unit Price (USD)	Extended Price
1	D4857-P			Wiper Deflector As Per Dwg D4857 Rev. F	Firmed	7/25/18	20 pcs	0 pcs	20 pcs	\$775.00/pcs	\$15,500.00

Line Item Note W/O 178072

Grand Total: \$15,500.00

Order Notes

Terms & Condition of Purchasing(Suppliers) and Procurement Quality Clauses are an integral part of our AS9100 requirements. To learn in detail, please visit www.dartaerospace.com for further explanation.

Procurement Quality Clauses

A005 RIGHT OF ENTRY

A007 FIRST ARTICLE INSPECTION (FAI) BY SELLER, (DOCUMENTATION MAINTAINED BY SUPPLIER)

A012 CHEMICAL AND PHYSICAL TEST REPORTS

A016 PERSONNEL QUALIFICATION

A017 RAW MATERIAL IDENTIFICATION (AS APPLICABLE)

A026 CERTIFICATION OF MATERIAL CONFORMANCE

A041 QUALITY MANAGEMENT SYSTEM

A042 DART NOTIFICATION BY SUPPLIER

A043 RETENTION OF QUALITY DOCUMENT

A048 COUNTERFEIT PARTS AVOIDANCE, DETECTION, MITIGATION AND DISPOSITION PROGRAM

A049 SUPPLIER AWARENESS

Plex 6/8/18 11:31 AM dart.lavoie.chantal

FDC Composites inc.

45 chemin de l'Aéroport
Suite 26
Saint-Jean-sur-Richelieu, Québec J3B 7B5
Canada
Tel: (450) 357-1344
Fax: (450) 357-1194

Packing Slip

Packing Slip No.: 10099
Date: 2018-07-27
Page: 1

Sold to:	Ship to:
DAE-USD Dart Aerospace Ltd. 1270 Aberdeen Street Hawkesbury, Ontario K6A 1K7 Canada	DAE-USD Dart Aerospace Ltd. 1270 Aberdeen Street Hawkesbury, Ontario K6A 1K7 Canada
Order No.: 040144	Sold By:
Shipped By:	Ship Date: 2018-07-27
Tracking No.:	

Item No.	Unit	Description	Quantity
DAE012	Chaque	Wiper Deflector D4857 PO item: 040144/1 W/O 178072 FDC ID: DAE012-050 Lot: 2018-06-13 FDC ID: DAE012-051 Lot: 2018-06-14 FDC ID: DAE012-052 Lot: 2018-06-15 FDC ID: DAE012-053 Lot: 2018-06-14 FDC ID: DAE012-054 Lot: 2018-06-18 FDC ID: DAE012-055 Lot: 2018-06-18 FDC ID: DAE012-056 Lot: 2018-06-18 FDC ID: DAE012-057 Lot: 2018-06-18 FDC ID: DAE012-058 Lot: 2018-06-18 FDC ID: DAE012-059 Lot: 2018-06-19 FDC ID: DAE012-060 Lot: 2018-06-18 FDC ID: DAE012-061 Lot: 2018-06-19 FDC ID: DAE012-062 Lot: 2018-06-20 FDC ID: DAE012-063 Lot: 2018-06-20 FDC ID: DAE012-064 Lot: 2018-06-21 FDC ID: DAE012-065 Lot: 2018-06-21 FDC ID: DAE012-066 Lot: 2018-06-21 FDC ID: DAE012-070 Lot: 2018-06-27 FDC ID: DAE012-071 Lot: 2018-06-27 FDC ID: DAE012-072 Lot: 2018-06-27	20
Comment:			